

Form PTO-1449

Docket Number 146712004700

Application Number 10/687,584

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

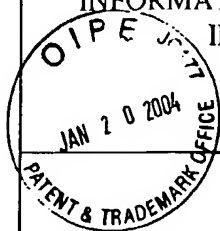
Applicant

Jianwei LIU et al.

Filing Date October 20, 2003

Group Art Unit Not Yet Assigned

Mailing Date January 20, 2004



## U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
<i>SW</i>	1.	2/1980	4,188,434	Loran			
	2.	9/1983	4,404,247	Dominguez-Burguette et al.			
	3.	7/1985	4,526,833	Burguette et al.			
	4.	7/1985	4,529,659	Hoshino et al			
	5.	11/1985	4,552,799	Ryoke et al.			
	6.	7/1986	4,601,950	Iida et al.			
	7.	5/1987	4,664,963	Sakai et al.			
	8.	9/1987	4,693,927	Nishikawa et al.			
	9.	11/1988	4,786,544	Saito			
	10.	6/1989	4,839,244	Tsukamoto			
	11.	9/1991	5,049,410	Johary et al.			
	12.	8/1992	5,137,784	Suzuki et al.			
	13.	1/1993	5,178,954	Norman et al.			
	14.	7/1994	5,331,487	Gregory et al.			
	15.	2/1996	5,489,480	Usuki et al.			
	16.	10/1997	5,677,051	Ueda et al.			
	17.	2/1998	5,718,942	Vurens et al.			
	18.	10/1998	5,820,964	Nakakawaji et al.			
	19.	2/1999	5,869,186	Usuki et al.			
	20.	12/1999	6,001,446	Nakada et al.			
	21.	12/1999	6,001,479	Yokosawa et al.			
	22.	8/2000	6,099,762	Lewis			
	23.	8/2000	6,099,896	Stirniman			
	24.	9/2000	6,117,964	Falcone			
	25.	7/1989	4,849,305	Yanagisawa			
✓	26.	7/1992	5,128,216	Ng			

EXAMINER:

DATE CONSIDERED:

11-4-2004

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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<i>ju</i>	27.	7/1996	5,536,577	Murayama et al.			
	28.	12/1996	5,587,217	Chao et al.			
	29.	01/1999	5,858,536	Yanagisawa			
	30.	04/1997	5,618,639	Ohno et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
<i>ju</i>	31.	5/1988	JP63102038	JP			abstract
<i>ju</i>	32.	9/1988	JP63225918	JP			abstract
<i>ju</i>	33.	10/1988	JP63237216	JP			abstract
<i>ju</i>	34.	6/1991	JP3134818	JP			abstract
<i>ju</i>	35.	12/1996	JP8319491	JP			abstract
<i>ju</i>	36.	9/1998	JP10251676	JP			abstract

## OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
<i>ju</i>	37.	G. Barth et al., "Characterizing the Surface Chemistry of Magnetic Disk Media through Surface Derivatization", Solid State Technology, p. 119-121, January 1989
<i>ju</i>	38.	M. Yanagisawa, "Adsorption of perfluoro-polyethers on carbon surfaces", ASME/STLE Tribology Conference, p. 25-32, Oct. 16-20, 1994
<i>ju</i>	39.	B. DeKoven et al., "Chemistry/orientation of lubricants on hard disk magnetic media substrates (CH <sub>x</sub> and CN <sub>x</sub> ) using near edge x-ray absorption fine structure (NEXAFS), (abstract), MRS Spring 98 Meeting, Symposium L, Materials for High-density Magnetic Recording, April 12-16, 1998
<i>ju</i>	40.	"Magnetic Materials", Annual Report, Ceramics Division, NIST, p. 1,6, 7/21/99

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*Quen A. Quen*

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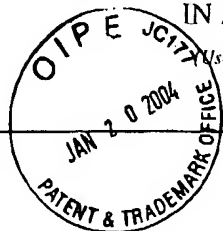
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41.

N. Shukla et al., "The interaction of  $\text{CF}_3\text{CH}_2\text{OH}$  and  $(\text{CF}_3\text{CF}_2)_2\text{O}$  with amorphous carbon films,  
*Langmuir* 2000, 16, 6562-6568, 5/15/2000

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